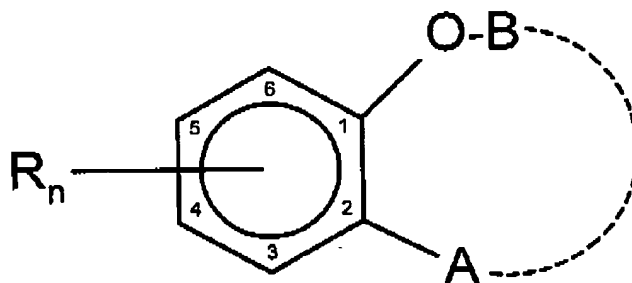


IN THE CLAIMS:

Please amend the claims to read, as follows:

1. (Previously presented) A process for promoting weight loss in mammals by the administration of a therapeutically effective amount of one or more chemical compositions defined as:

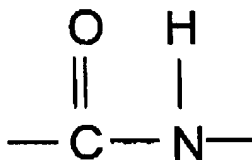


Wherein "R" represents  $C_1$ - $C_4$  alkoxy, with the provision the R is in the 4 or 5 ring position;

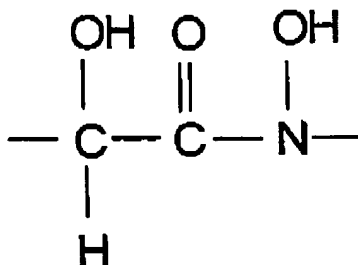
Wherein "n" represents one of the integers 0, 1 or 2;

Wherein "B" represents H and "A" represents  $-OH$ ,  $-NH_2$  or  $NHCR'$ , where  $R'$  denotes  $C_1$ - $C_4$  alkyl;

and "B A" represents

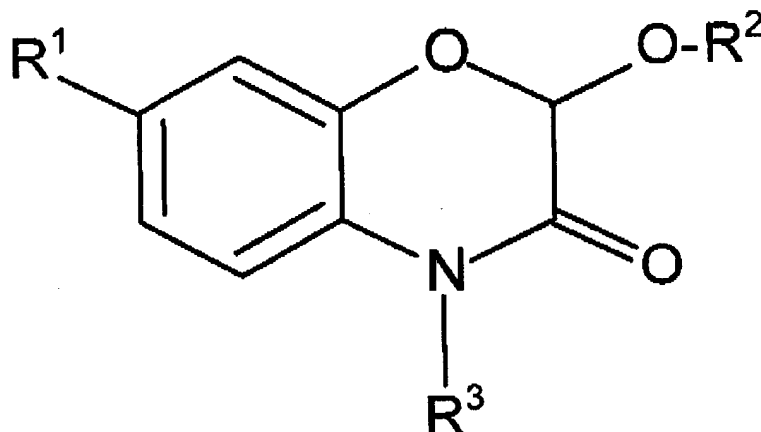


or



or pharmaceutically acceptable salts thereof.

2. (Previously presented) A process as defined in claim 1, further comprising the administration of a therapeutically effective amount of one or more chemical compositions defined as:



Wherein "R¹" is selected from the group consisting of H and OCH₃;

Wherein "R²" is selected from the group consisting of H and Glucose (as a glucoside);

Wherein "R³" is selected from the group consisting of H, OH, and OCH₃; or

pharmaceutically acceptable salts thereof.

3. (Previously presented) A process as defined in claim 1, wherein said administered chemical composition comprises a daily dosage of between about 5 mcg and about 60 mg.

4. (Previously presented) A process as defined in claim 1, wherein the administered chemical composition comprises a daily dosage of 15 mg.

5. (Previously presented) A process as defined in claim 1, wherein at least one of said chemical compositions is obtained from one or more monocotyledonous plants selected from the group consisting of corn, wheat, barley, rye, oats, rice, sorghum, millet, bamboo, Job's Tears, barley-like grasses, and wild grasses, by growing the plant to an immature life history stage and harvesting the plant.
6. (Previously presented) A process as defined in claim 5, wherein said harvested plant is dried.
7. (Previously presented) A process as defined in claim 6, wherein said harvested plant is dried at a temperature in the range of between about 40°C and about 45°C.
8. (Previously presented) A process as defined in claim 6, wherein said dried harvested plant contains phenols in total amounts greater than 17.0 mg/gm (dry weight).
9. (Previously presented) A process as defined in claim 6, wherein said dried harvested plant contains combined amounts of 4-hydroxycinnamic acid and 4-hydroxy-3-methoxycinnamic acid totaling no more than 1.5 mg/gm (dry weight).
10. (Previously presented) A process as defined in claim 5, wherein said harvested plant is immature corn, *Zea mays*.

11. (Previously presented) A process as defined in claim 10, wherein said immature corn has been grown to a height between about 45 centimeters and about 122 centimeters.

12. (Previously presented) A process as defined in claim 10, wherein said immature corn has been grown to a height that does not exceed between about 30 centimeters and about 45 centimeters.

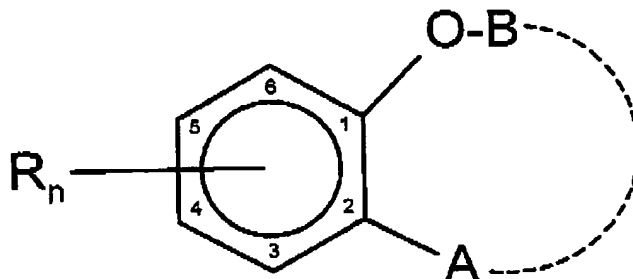
13. (Previously presented) A process as defined in claim 10, wherein said immature corn has been grown for less than ten weeks after planting.

14. (Previously presented) A process as defined in claim 1, wherein said chemical composition is administered in a manner selected from the group consisting of: (1) orally, in the form of tablets, capsules, suspensions, solutions and other means suitable for ingestion, including sublingual dosage forms; (2) intranasal administration; (3) transmucosal administration; (4) parenteral injection, in the form of subcutaneous, intramuscular, intravenous; (5) implant for sustained release; and (6) transdermal patch.

15. (Previously presented) A process as defined in claim 1, wherein therapeutically effective amounts of said chemical composition further comprise adjunctive therapy for a condition selected from the group consisting of arthritis, sleep apnea, fibromyalgia, diabetes, and hyperglycemia.

16-90. (Canceled)

91. (New) A process for promoting weight loss in mammals by the administration of a therapeutically effective amount of one or more chemical compositions defined as:

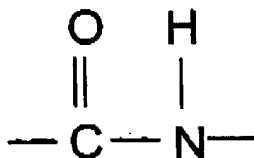


Wherein "R" represents  $C_1-C_4$  alkoxy, with the provision the R is in the 4 or 5 ring position;

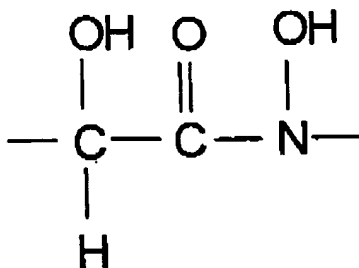
Wherein "n" represents one of the integers 0, 1 or 2;

Wherein "B" represents H and "A" represents -OH, -NH<sub>2</sub> or NHCR', where R' denotes  $C_1-C_4$  alkyl;

and "B A" represents



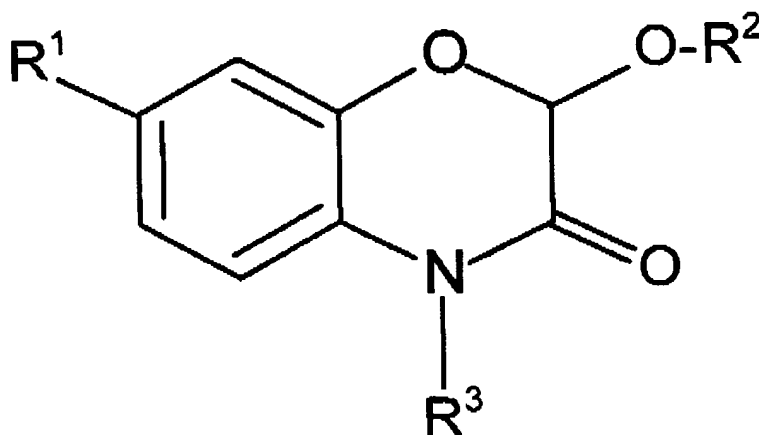
or



or pharmaceutically acceptable salts thereof; and

wherein said administered chemical composition comprises a daily dosage of between about 5 mcg and about 60 mg.

92. (New) The process as defined in claim 1, further comprising the administration of a therapeutically effective amount of one or more chemical compositions defined as::



Wherein "R¹" is selected from the group consisting of H and OCH₃;

Wherein "R²" is selected from the group consisting of H and Glucose (as a glucoside);

Wherein "R³" is selected from the group consisting of H, OH, and OCH₃; or

pharmaceutically acceptable salts thereof.

93. (New) The process as defined in claim 91, wherein the administered chemical composition comprises a daily dosage of 15 mg.

94. (New) The process as defined in claim 91, wherein at least one of said chemical compositions is obtained from one or more monocotyledonous plants selected from the group consisting of corn, wheat, barley, rye, oats, rice, sorghum, millet, bamboo, Job's Tears, barley-like grasses, and wild grasses, by growing the plant to an immature life history stage and harvesting the plant.

95. (New) The process as defined in claim 94, wherein said harvested plant is dried.

96. (New) The process as defined in claim 95, wherein said harvested plant is dried at a temperature in the range of between about 40°C and about 45°C.

97. (New) The process as defined in claim 95, wherein said dried harvested plant contains phenols in total amounts greater than 17.0 mg/gm (dry weight).

98. (New) The process as defined in claim 95, wherein said dried harvested plant contains combined amounts of 4-hydroxycinnamic acid and 4-hydroxy-3-methoxycinnamic acid totaling no more than 1.5 mg/gm (dry weight).

99. (New) The process as defined in claim 94, wherein said harvested plant is immature corn, *Zea mays*.

100. (New) The process as defined in claim 99, wherein said immature corn has been grown to a height between about 45 centimeters and about 122 centimeters.



101. (New) The process as defined in claim 99, wherein said immature corn has been grown to a height that does not exceed between about 30 centimeters and about 45 centimeters.

102. (New) The process as defined in claim 99, wherein said immature corn has been grown for less than ten weeks after planting.

103. (New) The process as defined in claim 91, wherein said chemical composition is administered in a manner selected from the group consisting of: (1) orally, in the form of tablets, capsules, suspensions, solutions and other means suitable for ingestion, including sublingual dosage forms; (2) intranasal administration; (3) transmucosal administration; (4) parenteral injection, in the form of subcutaneous, intramuscular, intravenous; (5) implant for sustained release; and (6) transdermal patch.

104. (New) The process as defined in claim 1, wherein therapeutically effective amounts of said chemical composition further comprise adjunctive therapy for a condition selected from the group consisting of arthritis, sleep apnea, fibromyalgia, diabetes, and hyperglycemia.